Kingbright

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Enhanced Visualization
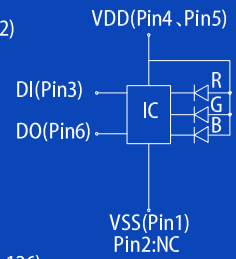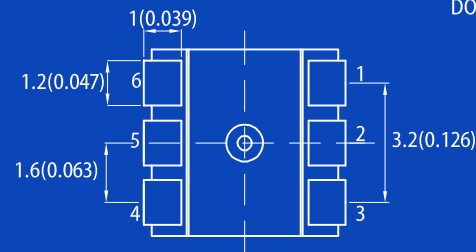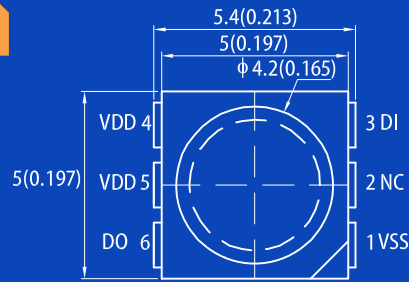
CHAMELEON
RGB+IC LED

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RGB+IC LED

Product Features

- Addressable intelligent control PLCC-6 package with integrated control circuit for complete control of each pixel
- Intelligent protection against reverse connection
- Built-in electric reset and power lost reset circuit
- 256-level grayscale adjustable circuit
- Built-in signal reshaping circuit
- Cascade port transmission signal by single line
- Moisture sensitivity level: 3
- RoHS compliant, halogen-free

Applications

- Decorative and entertainment lighting
- Full color module and LED light strip
- Commercial and residential architectural lighting
- Signage applications

5.4(0.213)
5(0.197)
φ4.2(0.165)
5(0.197)

VDD 4   3 DI
VDD 5   2 NC
DO 6   1 VSS

1.6(0.063)   0.3(0.012)

1(0.039)
1.2(0.047) 6   1
1.6(0.063) 5   2   3.2(0.126)
4   3

VDD(Pin4、Pin5)
DI(Pin3)
DO(Pin6)
IC
R
G
B
VSS(Pin1)
Pin2:NC

All dimensions are in millimeters (inches)

PRODUCT SPECIFICATION

Part Number	Lens Type	Color	Peak Wavelength (nm) Typ.	Dominant Wavelength (nm) Typ.	Iv (mcd)@V_{DD}=5V, Gray Scale Level = 255 Min.	Typ.	Viewing Angle 2θ1/2
AAAF5050-MC-K12	Water Clear	Red	640	625	200	360	120°
		Green	515	525	400	600	
		Blue	460	465	80	150	

OTHER OPTIONS

HELI-Color Series

HELI colour

- Enhanced bi-color and full RGB color spectrum
- Embedded LED dies driven at 2mA current and low forward voltage
- VF max at 3.1V for Green, Blue and 2.1V for Red and Yellow colors
- Featured both Top Emitting and Right Angle packages in various sizes

RGB+RGY Series

SMD & Through-hole LEDs
RGB·RGY

- Available in top-emitting & right-angle SMD and through-hole LEDs
- SMD packages with 4 pins (common anode or cathode) and 6 pins where each color is driven independently
- Through-hole styles in common anode or cathode
- Emits all visible colors

VLED Series

Vivid Pastel Illumination
- Imaginary Colors Actualized

- Utilizes the latest technology to obtain unique color spectrum
- Creates an unforgettable impression
- Available in Top-Emitting, Right-Angle, and Through-Hole packages in various sizes
- Packages with low current options available

Kingbright

Pb lead-free
RoHS EU 2015/863

ISO 9001:2015 Certificate No. FM 509252
IATF 16949: 2016 Certificate No. TS 505943
ISO 14001: 2015 Certificate No. EMS 505945